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THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

PHONOGRAPH CENTENNIAL
1877 - 1977

Dancing to Radio Music on the Ocean

Science and Invention for May, 1922

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One of the Atlantic Coast Steamship Lines Has Equipped a Steamship Plying Between New York and Havana, Cuba, With a Series of Magnavox Radio Loud-talkers, and the Passengers Have Enjoyed Dancing to the Music Transmitted from "WJZ"—the Westinghouse Radiophone Broadcasting Station at Newark N. J.,—a Distance of About 1,200 Miles, While in Havana Harbor. The Vessel Is Wired With a Special Loud-talker Circuit, so That the Instruments Can Be Plugged in Thru Regular Marine Receptacles. This Circuit Runs to the Radio Cabin on the Ship, and One of the Radio Operators Tunes in the Music from the Broadcasting Station, While the Loud-talkers Spread About the Deck Do the Rest.

OUR illustration depicts a scene on board one of the various passenger vessels plying between New York and other Atlantic seacoast cities and Havana, Cuba, dancing being enjoyed on shipboard, thanks to radiophone music picked up out of the air from the distant broadcasting station, located at Newark, N. J., just outside New York City. This marks a phenomenal and extraordinary application of radiophone music and concerts.

As we see from the picture, several Magnavox loud-talkers are placed about the deck and the wires from each instrument are connected by means of a plug into a socket in the floor or ceiling of the deck. All of these sockets are wired to a common circuit connecting all of them, and the wires then lead to the radio cabin, as shown.

In other words, the passengers who enjoy the dancing have to thank the ship's radio operator or operators for this service, for it is up to them to pick up the broadcasting wave and keep it tuned sharp and steady thru interference and static. This performance is all the more interesting and remarkable in view of the fact that the distance is so great, in the neighborhood of 1,200 miles.

No doubt radiophone concerts, such as these, including dance music and other programs, will become quite common on ocean liners during the next few years, many ships now picking up the concerts broadcasted from Newark and other Atlantic coast stations, when far out on the Atlantic, over 1,000 miles from America. By utilizing suitable vacuum tube amplifiers, any number of loud-talkers can be supplied with current from the radio set. It is not so much of a dream after all, perhaps, to think for a moment that tomorrow, perhaps, the ocean traveler will be supplied with radiophone music whenever he may desire it right in his cabin, simply by turning a switch mounted on the base of a small horn device on the wall.

A question which many people have asked in regard to such elaborate radiophone reception and amplification, as that here illustrated and described, is as to whether or not regular radio messages from other ships, time signals, et cetera, can be received without interference with the radiophone reception. The answer to this question is that with most of the radio receiving sets this is not possible, and that either one or the other can be received at the same time without seriously interfering with the clarity and strength of the radiophone music or speech. Where it is imperative to pick up a message at the same time that radiophone music or concerts are being received, an expert operator can detune the radiophone wave sufficiently to be able to pick up simultaneously the radio telegraph and read the dot and dash signals thru the music at the same time. Of course the dots and dashes will be heard thru the loud-talkers on deck or in the cabin also, but we have often found in our own experience, that when the dot and dash signals are indeed quite strong enough to be read clearly, they will still be weak in the loud-talker so as not to interfere seriously with the music, altho it may be heard by those close to the horn. With respect to the time signals, these will be picked up invariably and relayed thru the loud-talkers for the benefit of all within hearing, as the broadcasting stations stop their concerts about eight or ten minutes before ten in the evening for this purpose.

It might be pointed out in this instance that the radio weather reports given out at 10:01 P. M. from the broadcasting stations, are much more correct than those given in the afternoon and evening editions of the newspapers, as radio fans everywhere have undoubtedly learned by this time, for the reason that the 10:01 P. M. weather report broadcasted *via radio*, has been received but a short time before by these stations from the U. S. Weather Bureau at Washington, or other official observation points, while the reports printed in the afternoon and evening editions of newspapers are those received during the morning hours of that day. It is the proud boast of the weather bureau, so one expert said recently, that they have not made a mistake in broadcasting the weather twenty-four to forty-eight hours ahead, except about once in one hundred daily forecasts. The writer of this article has been particularly impressed, by observing these radio broadcast weather reports himself, and has found this percentage to be about right it would seem. So when you hear the radio man howl out of the amplifier horn *Rain Tomorrow!* it's no use, old top—chase up your rubbers and the umbrella and lay them beside the hall rack, for you are going to need them in the morning!

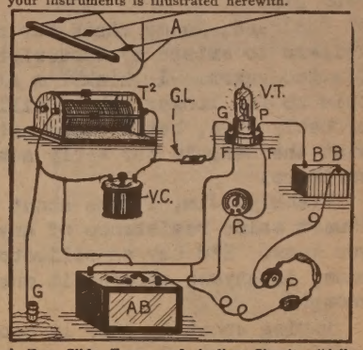
Science and Invention for May, 1922

A 2-Slide Tuner and a Vacuum Tube

(6) Martin Lusk, Atlanta, Ga., asks:

Q. 1. Can I use a two-slide tuner to tune with, in connection with an audion detector? I also have fixed and variable condensers.

A. 1. The hook-up which you may use for your instruments is illustrated herewith.



A Two Slide Tuner and Audion Circuit. "A," Aerial, "T2," Two Slide Tuner, "V. C.," Variable Condenser, "G. L.," Grid Leak and Condenser, "BB," 22½ Volt B Battery, "AB," 6 Volt Storage Battery, "R," Rheostat, "V. T.," Vacuum Tube. The Letters Around the Vacuum Tube Socket "G. P. F.," and "F," Represent the Grid, Plate and Filament Designations Found on all Such Sockets.

A Fairly Good Receiving Set

(7) G. Rudolph Thompson, Norfolk, Va., asks:

Q. 1. Please give me list of parts for a fairly good receiving set.

A. 1. For building the vacuum tube detector receiver you will need:

100 to 150 feet No. 14 7-strand copper wire, for antenna. Weather-proof insulated wire for lead-in enough to reach your set.
1 100-ampere lightning switch, or a lightning arrester, or whatever safety device may be required by your local electrical inspector. This must meet the requirements of the National Board of Fire Underwriters if you want to collect insurance on your house in case it is struck by lightning.
1 vario-coupler, to tune from 150 to 600 meters.
6 switch points and knob.
Ground wire, which may be cut from wire purchased for lead-in.
1 filament rheostat.
1 storage battery, 6 volts and as many ampere-hours capacity as you want to pay for. Smaller ones need recharging oftener.
1 "B" battery, 22½ volts.
1 pair 2,000 ohm phones.
1 audion socket.
1 audion bulb.
1 grid leak and grid condenser, .00025 microfarad capacity. Wire for connections should be insulated. Stranded wire has better conductivity. The larger it is, the less resistance, but don't get it so large and stiff that it is hard to manage. Look at a ready-made set and see how it is wired.

If you are going to build a set we suggest that you read radio advertisements, secure catalogs, compare goods and prices.

Simple Hook-up for Reception from "W. J. Z."

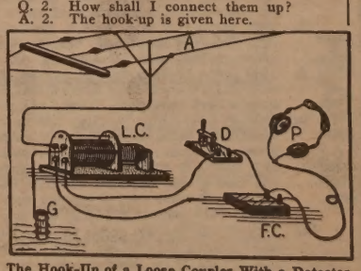
(8) Paul Novel, Long Island City, N. Y., asks:

Q. 1. With a loose coupler, fixed condenser, crystal detector and 2,000-ohm phones, can I receive music from W.J.Z.?

A. 1. Yes.

Q. 2. How shall I connect them up?

A. 2. The hook-up is given here.



The Hook-Up of a Loose Coupler With a Detector and Other Apparatus. "A," is the Aerial, "L. C.," Loose Coupler, "D," Detector, "F. C." Fixed Condenser, "P," Phones, "G," Ground.

FIND OF THE MONTH

I recently found and purchased some sets which were collected in this area about five years ago. They are Atwater Kent 35, Crosley Trirdyne Regular, Crosley SISD, Crosley Gembox, DeForest Interpanel, Fada 192A, Grebe CR-12, and MuRad MA-13.

So, I'm glad to have added a few nice sets to my collection.

Thanks. Have a happy holiday season.

Sincerely,
James R. Collings
2218 Woodard
Abilene TX 79605

LETTERS

Dear Jim:

Enclosed, is my check for nine dollars to extend my subscription for two years. I think I'm already paid up for longer than I will probably live, but I could not resist the bargain for early subscribers.

Frankly, Jim, I have about the lowest sales resistance of any one you know. I'd buy an alligator with acne, if anyone offered it cheap-enough!

Having spent my life in broadcasting here in Chicago, and having started with radio in 1922, your magazine is understandably of interest to me. I go back to the early days in broadcasting, and the first BC Transmitter I had any contact with used a WE 212-D Self-excited Oscillator, heising modulated with another 212-D, and a motor generator for a power supply.

Having retired from WGN here, I am an enthusiastic member of AWA, and have a fairly good collection of antique equipment. I now write for a number of smaller publications and technical magazines. Please keep up the magazine, Jim. It definitely fills an obvious need.

73
Paul C. Crum, W9LC
6272 N. Cicero Ave.
Chicago IL 60646

Dear Jim:

Like your radio and phono newspaper very much. In the December issue page 10 on wood veneers the best place to get them in any quantity or kind is Albert Constantine & Son, Inc., 2050 Eastchester Rd., Bronx N.Y. 10461. I have been buying veneers from them for forty years and they carry everything in the wood or wood veneer line for the hobbyist.

Regards,
Burt Noyes
4 Pinewood Dr.
Stratham N.H. 03885

Editor...Thanks for sending us the information.

Dear Jim:

Enclosed is a check, please renew my subscription for 1977.

I have enjoyed your newspaper for the past 3 years, and every time a new issue arrives, I continue to learn and enjoy.

I have approx. (60) table model radios, ranging from a (1939 G.E.) to a (1921 Federal Jr.).

BACK ISSUES
The Horn Speaker

All 10 back issues for 1973...$8.00
Single issues....$1.00 each
All 10 back issues for 1974...$6.00
Single issue.....$.75 each
All 10 back issues for 1975...$5.00
Single issue.....$.75 each

Later, we should have complete volumes for 1972.

The Horn Speaker
Box 12 Kleberg, Texas
75145

For those who want to learn...

ATTENTION ANTIQUE RADIO COLLECTORS, EXPERIMENTERS, HERE IS OUR NEW HISTORICAL PACKAGE OF RECENT LITERATURE!!!!!!!!!! VERY RARE BOOKS, MANUALS, AND CATALOGS!!!!!!

FULL LENGTH NEW BOOKS:

Solve all your old time radio problems....save on the long distance phone calls, inquiries, letters, and both of our valuable time. These rare books will enable anyone to repair, restore, find out about that unknown 1920-25 Kit radio, build from construction plans (like the old days) crystal sets, the First Marconi wireless sets and stations, one through 10 tube sets, any type of circuits, up to and including early mechanical Television Sets...be the same procedure a radio design engineer or technician uses: Most large old radio Catalogs list the radio model number and exact part numbers, technical specifications of that unknown or bad transformer...use this data to secure a modern replacement, plus it is very educational..IF YOU PLAN TO DISPLAY your equipment, the judges will give you more POINTS with supporting LITERATURE!!!!!!!!!!

1. 1917 Practical Wireless Telegraphy Rev. Ed., By Elmer Bachar (10,000 printed) A complete text for students of radio comm., when radio was born, rare theory based on all MARCONI'S works, 350 illustrations, 17 chapters, 350 pages, appendix contains Questions and Answers to all..FIRST BOOK WIRELESS.....$19.95.
2. 1920 The Wireless Experimenter's Manual By Elmer Bachar Brother book to above RARE design and construction (how to build) ALL MARCONI'S equipment from each component to his complete station, a step-by-step analysis to show Radio Amateurs Radio Communication (started here) 358 pages, 14 chapters, over 244 illustrations, RARE Marconi wiring diagrams, other early manufacture's such as De Forest, Grebe, Weagant, Poulsen, (try and buy the originals) all in museums...most comprehensive manual printed..all details.....$19.95.
3. 1924 POPULAR RADIO HANDBOOK NO. 1, By Banning and Cockaday, All details How to construct and build crystal sets, one thru five tubers..all circuits, Book was the result of all their radio projects published in Popular Radio Magazine/newspapers, excellent for unknown kit radios, 100 pages.....$6.95.
4. 1923-1924 Electrical Research Laboratories Bulletins No. 17 and 18 ERLA Pan-Radiex circuits//Scientific Audio Amplification, all design and construction plan of How to build these early radio stages, 20 pages.....$2.95.
5. 1924-25 Modern Radio Reception, By Charles R. Leutz A step by step detail analysis of all his works, How to build Regenerative, Super-Sets, Pliodyne, Laboratory, transmitting data and equipment: He used parts from 17 major sources and made the first Classic Kits, Super Sets, Models C7, C, Palmar, Super 4, C-10, 8, J, Type T22, Cunningham tubes all types, Rare Diagrams of Western Electric Equipment, Gen Electric and Radio, over 260 of the finest well illustrated diagrams test equipment, Complete Chapter on His law suit RCA, 345 pages..$19.95
6. 1924 Radio Reading Course with 5 Lecture Books, By Prof. J.H. Morecroft, We combined five books into one that covers Theory, Design, Construction, Operation, Maintenance, most authoritative on Radio Telephony, for gen. public to clear up misconceptions of radio experts during wartime and after, 188p...$2.95
7. 1927 RADIO KEY BOOK, By E.H. Rauland How to build models: All-American, All-Amax Jr., Sr., Browning Drake 4-T, Roberts-5-tube, Toroid, Luxury, Raulands, and 25 other radios, well illustrated, all details..ONE OF THE BEST REF. WE USE, 50p $2.95
8. 1932 Radio Trading Co. Catalog No. 25, Radio bargins for all, covers all phases well illustrated, very educational, loaded with the Earliest TV'S/all accessories, many midget receivers, tubes, all parts/model no. etc., you will love it, 100p $7.95
9. 1932-33 EMRO RADIO Catalog, 100 8½ x 11 well illustrated, Radios: EMRO cathedrals, Washington Batt.-types, Crosley Johnny Smoker, Air King, Supreme, Jewell, Monarch, Envoyette, Grebe MU-1, Globe, National, RCA, Superior, best selected types, 100p $7.95
10. 1933 RADIO/TV SUPPLY CO. WHOLESALE GUIDE CATALOG, 225 pages 8½ x 11 selected and used by us, contains valuable descriptive data/tech. information for Radio dealers, Service men, Engineers and Amateurs...so well illustrated some parts are almost full page, contain model no., which use every part/sube THE BEST.....$14.95
11. 1924-25 RCA Radiola Sales Catalog Booklet, Models: all sets and accessories Made in these years; III, III-A, VIII, Super-Het, 25, 26, 28, 30, 20, Spkrs, 22p.....$2.95
12. 1927-28 RCA Sales Booklet, By Strawn March. Co. Texas, RCA's: 16, 18, 30-A, 50, 60, 62, 64, All Inter Access., Spkrs: 100-A, 103, 106, tubes, 28 pages.....$2.95

for those who want to remember...

13. 1929 RCA Radiola Model 66 Super-Heterodyne Instruction and Operations Manual Complete with wiring diagrams 16 pages, well illustrated.....$2.95
14. 1930 BURLEY Radio Instruction Book By Spiegel-May-Stern Co., For Screen Grid Models: 259853, 55, 57, 54, 56, and 9858 RARE 18 page with illustrations.....$2.95
15. RADIO TUBE TECHNICAL MANUAL, 80 pages we compiled by us as an result of alot of questions and answers, Contents: Theory of Radio Tubes, Radio tube tables featuring Receiving tube data from RCA and National Union (first tube spec sheets illustrating the earliest RARE tubes) kinescopes included, all diagrams, characteristics, Specification sheets and own hints on WD11, 99, 120, 201A, etc.$4.95
16. OFFICIAL RADIO SERVICE MANUAL INDEX FOR 1931-32-33, 10 pages.....$1.95
17. J. F. RIDER'S MASTER INDEX FOR RADIO VOLUMES 1, 2, 3, 4, &2p write for others.$2.95
18. J. F. RIDER'S MASTER INDEX FOR TV VOLUMES 1 thru 4, 50pages write for others.$2.95
19. SUPREME PUBLICATIONS MASTER INDEX FOR ALL RADIOS/TV 1926-1952 34 pages.....$2.95
20. 1947 ARVIN RADIO DIAGRAMS-Supreme Publications, 34 pages, 38 models.....$2.95
21. 1947-48 PHILCO TELEVISION YEARBOOK, Years of the first production TV'S, contains Complete Service Information for all sets made...Projection Model 48-2500, schematics, diagrams, photos, well illustrated over 145 pages.....$7.95
22. 1924 VICTROLA BOOKLETS How to get the most out of your Victrola...36pages
23. 1924 VICTROLA SPRING MOTOR TYPE Instructions, OperationsBook ...8pages BOTH RKS $2.95
24. 1921 RCA to 1927 VICTOR RECORD AND MAGAZINE LISTING We have over 20 Major (620pages) Booklets, magazines, catalogs, first issued, a must for the Record and Radio Collectors, lists the very RARE RADIO-RECORD Combinations Consoles such as Automatic Electrola NO. 1070, prices included, Too numerous to mention Send $3.00
25. R. H. SCOTT CLASSIC RADIO FACTORY SERVICE MANUALS/LITERATURE LISTING: Reprints of literature 1922-1950, Rare items lots of pages.....Refundable P/O..$1.00
26. 1949 EMERSON RADIO/TELEVISION ORIGINAL FACTORY SERVICE MANUAL This consist of 50 different individual FSM combined into one 264 page manual, 121 models.$14.95
27. ORIGINAL TUBE SPECIFICATION SHEETS (wrapped around tubes in carton)For WD11, VT-5 W.E. 2154, De Forest VT Audion, Original Tubular Audion Vacuum Amplifier, C-299, UX-120, Radiotron UX-201A, Cunninghams CX-371-A/301-A, RCA UX-250 each have their own circuits, we have left room for you to cut out label FOR USE IN LAST AUDIO STAGE ONLY, use on 71A and 112A/120 all 8½ x 11 7 pages.....a set..$1.50
28. NEED AN APPRAISAL? Any Radio, or early Scientific Device 1850-1950 $3.00 each, ANY Piece of Literature $0.50 each. Each appraisal comes on our standard Form dated and signed, any and all sentimental value discarded, 100's have been done for collectors, antique shops etc., RULES: Send a good Photograph, Model No. if known, Manufacturer, tubes, knobs, dials, Style, condition, if all UNKNOWN, a rough sketch of all, 26¢ in stamps, all Photos returned, monies returned if we can not appraise. Send $1.50 for ANY ITEM RESEARCHED, $1.50 Any Schematics (5 pages) per set 1890-1950 Radios or any electrical device, ANY INQUIRY 26¢ in STAMPS PLEASE!
29. OUR LATEST RADIO/WIRELESS RARE TUBE/REPRINT CATALOG $1.00 (refundable first order)
30. 1920-33 8½x14 CHART, in living COLOR, of 54 Carbon Resistors 50 ohms to 10 megohms, solve all your mystery resistor problems, suitable for framing.....$2.25 each.
31. 1924-1930 ORIGINAL ATWATER KENT FACTORY SERVICE MANUAL ENCYCLOPEDIA, revised and reprinted, 225 pages, 300 illustrations which covers everything you need to know about all models, speakers, accessories, 3 volumes, BEST SOURCE EVER $15.00.
32. NEW 1976 RADIO ANTIQUER'S DIRECTORY AND COLLECTOR'S GUIDE SERVICES QTR, covers all phases from A to Z, over 75 pages, the MOST IMPORTANT BOOK YOU CAN GET IN OUR HOBBY, STANDARD COPY $5.00, all photo in living COLOR (where applicable) $9.95.
33. LATEST FLEA MARKET QUARTERLY DIRECTORY covers all markets in alphabetical order throughout U.S.A. and CANADA, getting bigger than ever, others who bought know $2.25 per book, Special Handling To 2lbs 50¢, 2-10 lbs., 70¢, Over 10 lbs $1.00 each, some weigh 5 lbs., If in doubt leave check blank, we will fill-in, refund excess. Calif. Res. 6% ST. CANADIANS: same as USA, NO insurance on AIR, PAYABLE IN US FUNDS, NO STAMPS, ADD $2.50 for your check exchange rate, SAME FOR OTHER COUNTRIES. U. S. POSTAL SERVICE now requires a week for F-C MAIL, BK RATE 3 to 4 weeks, WE require 10 days to Process and Deliver. Insurance extra, Min. 80¢ 80¢ to $100, ORDERS OVER $30 FREE BONUS, Money Back Guarantee! ORDER ALL: HISTORICAL RADIO SERVICES, BOX 15370, DEPT. HSRS Long Beach, Ca. 90815 USA.

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REPAIR CIRCUITS Services GUIDES

Although I am especially fond of the "1930s wood cabinet Superhets," the toughest part of this "old radio" hobby is deciding which one to spend my money on.

I love them all, but unfortunately, I cannot afford them all.

Thanks for a great newspaper that keeps my electrons flowing.

Sincerely,
George P. Kunnath
38250 Lanse Creuse
Mt. Clemens, Michigan
48045

Editor...Write anytime.

Dear Jim:

Enclosed is a check to extend my "The Horn Speaker" subscription for another year per your special offer of $4.50 before Jan. 1.

In the Dec. '76 issue you mentioned the difficulty of finding veneer for cabinet repair.

Albert Constantine & Son, Inc.
2050 Eastchester Road
Bronx, N. Y. 10461

This company is a well established company and I have found them very satisfactory. They have a nice catalog of both veneers, solid woods and accessories. Their catalog is in color and they like 50¢ to help pay the postage, well worth it.

VIP Antiques
1467 Sdlier Circles Dr.
Indianapolis, In. 46239

This company has been satisfactory, however I just ordered from an ad so don't know if they really cater to mail order business.

Hope this info will be of use to you.

Best wishes for the coming year.

Ray Harland
2602 Mary Lane
Escondido CA 92025

Editor...We are always looking for sources of materials. Noticed that the Constantine source is a repeat, must be good.

Dear Jim:

Please renew my subscription to THE HORN SPEAKER for another year, enclosed payment. I have added to my collection a Fairbanks-morse console AC radio model 8 A. My other hobby is collecting old gasoline engines and I have two Fairbanks-Morse engines.

Another set I found was a "SHOWERS" five tube battery set model 20, Ser. 5710 with a fancy gingerbread panel. This set was made in Hanover PA by E.J.J. Gobrecht Co. in the late 20s or early 30s. Would like to hear from any one that owns or knows anything about them.

Always glad to see THE HORN SPEAKER come. Happy New Year.

Sincerely,
William L. Cunningham
4335 Barker St. S.E.
Washington, D.C. 20019.

Editor...Always glad to hear from you.

TURN BACK THE DIAL

by Fred L. Davis
June 1, 1940

Fred Allen will be heard at the same time as usual in the fall, but on a different network and for a different sponsor. Texaco is hiring Allen to do an hour-long show on CBS at the Wednesday night time he has been occupying for six years. Eddie Cantor replaces Allen for Bristol-Myers in the same time spot with a half hour show on NBC, thereby setting up another potential battle of comedians to attract the listening audience.

BETTY and BOB has been made available on transcriptions for local sponsorship, with General Mills retaining property rights. Starring parts are taken by Arlene Francis, the last networt Betty, and Carl Frank.

Bill Farren, NBC announcer, tells us that the day Germany invaded Holland, Belgium and Luxembourg, and Neville Chamberlain resigned, a network program opened with the commercial announcement: "The biggest news story this week is the opening of the World's Fair of 1940 in New York."

We remember when July 4 was Independence Day. This year the matter of the country's independence is so unstable that the New York World's Fair has disregarded the traditional celebrations and has named July 4 as "Broadcasting Day" at the Fair.

Whether the Gracie Allen campaign for the Presidency on the mythical Surprise Party ticket has caused sponsorial objections to be raised is a question. The face cream makers okayed Gracie's stunt before it started, but now the smart lads think the movement has become a hot potato. Bearing out the suspicion, it has been learned that at the termination of Burns and Allen's contract with Hind's, it will not be renewed.

Hedda Hopper, the Sunkist movie gossiper, has hypoed her mail count to 11,000 letters in one week by the simple expedient of writing in her column and preaching on the CBS air to "keep us out of war."

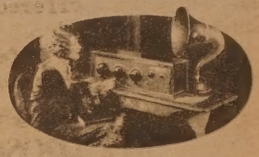
Young Johnnie Johnston has decided to go west while he is a young man. The baritone troubadour of "Club Matinee" will soon leave the spot where he has built a huge following to seek his fortune in Hollywood. His decision was arrived at through strictly financial reasoning.

1936 KCMO ANNOUNCER

WALTER CRONKITE entered the University of Texas at Austin in 1933, and to help pay his way, he worked as a campus correspondent for a newspaper and as a sports announcer for a local radio station. He left school in 1935 to work for the Houston Post. In 1936, he joined KCMO, Kansas City as news and sports editor. The following year, he went with the United Press and worked in Texas. That fall, he broadcast football games for WKY, Oklahoma City. He resigned in 1938 and joined Braniff Airlines in Dallas to do "exploitation" work. He rejoined the United Press in 1939 and worked at various bureaus. He was

Old Radio Treasures

There's a rare old radio waiting for you somewhere. Here's how to have year-round fun discovering valuable old sets in your attic, local swap meet or antique barn. You'll enjoy McMahon's fascinating books, truly fine collector's references.



VINTAGE RADIO, 1887-1929: Pictorial story of pioneer days, 1,000 photos, 263 pages. $10.95 hard-cover, $8.95 soft.

A FLICK OF THE SWITCH, 1930-50: Fun picture reference of home, military, Ham, professional radio-TV-electronics, 312 pages. $10.95 hard-cover, $8.95 soft.

RADIO ENCYCLOPEDIA, Gernsback's 1927 classic beautifully recreated, 175 pages. $14.95 hard-cover, $10.95 soft.

RADIO COLLECTOR'S GUIDE, 1921-32: Data book with 50,000 facts on 9,000 models by 1,100 makers, 264 pages, $6.95.

1926-38 RADIO DIAGRAMS: Beitman's classic of 600 models, 240 pages, $7.00.

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CIRCUIT DIAGRAM for any pre-1951 radio: $3.50. Send model number.

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one of the first journalists accredited to American forces after the U.S. entered World War II, and he covered many major battles. He stayed in Europe after the war and established UP bureaus in three countries.

Cronkite returned to the U.S. in 1948 and became the Washington reporter for a group of Midwestern radio stations. When the Korean War started, he accepted a CBS offer, but they kept him in Washington. In July 1950, he was assigned to develop the news department of the network's Washington television station. Thereafter, he was a part of various CBS news features and covered many important events. On April 16, 1962, he anchored the first telecast of the "CBS Evening News with Walter Cronkite." Today, his stature as a TV newsman is so well known it would be superfluous for me to elaborate further.

By Ray Poindexter,
Broadcast No. 5

A Small Nickel-Plating Outfit

By J. A. Hollander.

(Continued from last month)

File a clean surface on one of the ears left for connections, and solder a ¼ by ½ inch brass or copper bar 9 or 10 inches long (Fig. 3). To the end of this bar solder 4 to 5 feet of flexible lamp cord for connection. The parts of the bar projecting beyond the sides of the anode should be wrapped with 5 or 6 layers of lineman's tape to prevent any possible short circuiting.

Now solder a binding post to one of the ends of 4 or 5 one-quarter inch copper rods, 9 inches long. These are to act as cathode rods.

Solution.

A solution giving the best results consists of as follows:

1¾ lbs. double sulphate of nickel and ammonia.
3/5 oz. sal-ammoniac.
1 oz. single sulphate of nickel.
3 gal. distilled or filtered water.

The double sulphate crystals should be crushed in a mortar and dissolved in hot water, as heat helps the dissolution.

Sal-ammoniac is a good conductor of electricity and in a plating solution tends to deposit the plate faster.

Single sulphate of nickel gives that bright appearance to the plate so much desired in nicely finished objects.

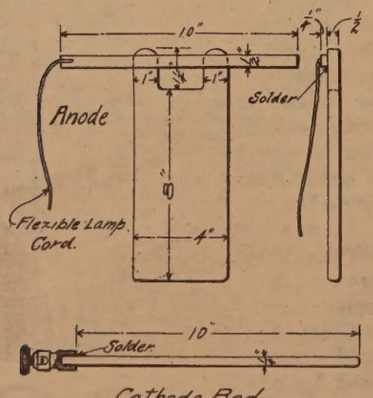

Fig. 3.

Both the sal-ammoniac and the single sulphate may be left out of the solution and still get a good plate.

Hard water should not be used under any consideration, not even when filtered, as it absolutely ruins the plate or gives no deposit at all. Distilled water can not as a rule, be had, so filtered water is the next best and the most economical.

The solution should stand at 5½ to 6 degrees Baume. If too heavy, add more

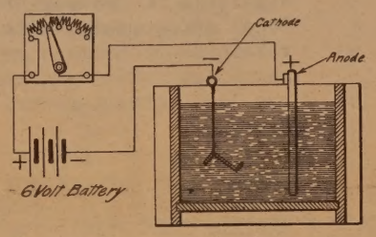

Fig. 4.

water, and if too light, more of the double sulphates should be added till the proper density is reached. Solutions standing above 7 degrees are apt to give a dark grey or black deposit and in some instances none at all. It is a good plan to test the solution before using, as a small amount of evaporation increases the density considerably.

Preparing the Work for the Bath.

If the work is desired to have a high polish after plating, it is to be understood that it must have a high polish before entering the solution.

Also it must be absolutely clean. This is the most important part of the whole process. It must not only look clean, but must be chemically clean. Too much care cannot be taken in securing the total absence of grease and foreign matter of all kinds. A few failures will soon convince one of this. If the work comes out of the bath having a mottled and dirty appearance, and the metal showing through in spots, it is sure to be due to improper cleaning.

String the work on a thin wire and swirl it around in a hot, but not boiling solution of ½ lb. of potash to 1 gallon of water. As soon as the work begins to change color remove and rinse in cold, clear water. If possible, running water should be used. If this is not available, then a large vessel full with frequent changes is the next best thing. Then dip for an instant in a solution composed of one pound of C. P. potassium cyanide to one gallon of water. Rinse in cold, clear water and hang immediately in the plating bath, twisting the small wires securely about the cathode rods.

Do not allow the work to be exposed to the air any longer than absolutely necessary, as it rapidly oxidizes and consequently the plate refuses to adhere properly.

If, after rinsing, water draws away in places, the work is not clean and should be potashed and cyanided over again. This should be repeated till water clings evenly over the entire surface, only then is the work ready for plating.

Plating.

Connect the anode to the leading out terminal of a rheostat giving small variations, and the leading in terminal to the positive pole of some source of low voltage direct current, say 5 to 6 volts. Connect the cathode rods to the negative pole by a length of flexible lamp cord (Fig. 4).

The flexible connectors are used so that the anode and cathode rods can be shifted, for instance, if there are a number of pieces to be plated, the anode is hung in the middle, but if there is but one piece of small surface, the anode is placed as far away as possible, to avoid discoloring the high parts.

From 2 to 5 volts should be used according to whether a smaller or larger surface is exposed. A six volt storage battery is just the thing. If the work takes on a dull grey or a black deposit, too much current is being used and the work must be taken from the bath and the spoiled plate removed by buffing or polishing. It is useless to attempt to plate over a piece that has once been spoiled without refinishing

A heavier current can be used at first and gradually decreased. This gives a foundation of rough plate with a fine plate for finish. The voltage can be tested with a low-reading volt-meter such as is used for testing dry cells.

Work should not be left in the solution for more than a half-hour with a heavy current, because the plate is liable to crack and peel off. Ordinarily, with a heavy current, fifteen minutes is long enough to deposit a fairly durable plate. The smoothest and finest plate can be had by passing a very moderate current for a long time, say an hour and a half.

If too much current is passing, a number of copper rods with the ends bent to form a hook, may be hung on the cathode rods in front of the anode, so as to take part of the current and avoid discoloring the work. These in turn can be used as anodes, but care must be taken not to let the bare copper touch the solution, as it is quickly ruined.

After a sufficiently heavy plate has been deposited, remove from the solution and rinse in cold water, then in hot, and dry in hard-wood sawdust after which finish on a soft buff.

With a little patience, and a few trials, one who heretofore had no knowledge of electroplating can turn out just as good a job as an experienced plater. And further, the appearance of the plated parts will certainly repay you for the trouble taken.

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THE LOOKS OF RADIO'S FUTURE IN 1932

F. A. D. ANDREA

Radio Dollar Value to Rise

By **F. A. D. Andrea**
President, F. A. D. Andrea, Inc.

THE remarkable economic trend in radio which has manifested itself during the past two years, resulting not only in an improvement in the appearance and performance of the higher-priced sets, but also offering the purchasing public substantial increase in dollar value on lower-priced sets, will unquestionably continue to be a factor in the industry.

This past trend, however, will be modified substantially by the elimination of the extreme low-price craze which has resulted in considerably inferior products being placed on the market, and the so-called lower price range will show a substantial advance in the dollar value of the unit sale, accompanied of course by substantial improvement in appearance and performance.

E. K. COHAN

Vertical Broadcast Antennas

By **E. K. Cohan**
Technical Director, Columbia Broadcasting System

NO longer are the double latticed-work steel towers, which dot the country from coast to coast, exclusively symbolical of a broadcasting station.

Since the middle of 1931 WABC, the 50,000-watt key station of the Columbia Broadcasting System in New York, has made radio news through the exclusive use of a new type of antenna for broadcast transmission purposes: a single vertical steel mast, 7 inches in diameter at the base, 27 feet in diameter at a height of 280 feet, and 665 feet high, over all.

After many months of practical experience with this radical departure from conventional antenna design, the excellent results and increased efficiency obtained justify the prediction that the single mast vertical antenna will become the symbol of the modern broadcasting station.

C. F. JENKINS

Television Perfection Increasing

By **C. Francis Jenkins**
Television Pioneer

TELEVISION, like all new arts, must of course have its ups and downs during its development period. Fifteen years ago, in my early work on motion pictures, I recognized a fixed source of light which would, when shuttered by a slide or a film at a speed fast enough to deceive the eye, be the ideal system for the projection of moving pictures on the screen.

Today, I believe the same principle will eventually be used to establish television, namely, to shutter a local fixed source of light with a slide whose density is in proportion to the picked up, transmitted television picture. There is much to be accomplished before this can be an actuality, and in the meanwhile the lens disc, cathode rays, all offer methods of approaching the ideal of television broadcasting.

I look for a general increase in the perfection of television offerings during 1932, with confidence that a television service, when properly organized, will open up various and many entertainment, educational, political and commercial avenues of progress that can at present be only dimly realized.

Tubes First, Condensers Second in Radio

By **William Dubilier**
Dubilier Condenser Corp.

WILLIAM DUBILIER

RECENT developments in the condenser industry indicate that the condensers have found their place in the electrical sciences and arts as well as radio.

The electrical art divides itself into three sections: capacity, inductance and resistance. Devices developed during the last fifty years have mostly utilized resistances or inductance or both. Only recently has capacity begun to take its place, seriously, with inductance and resistance.

Condensers are being used extensively with motors. Condensers are being used extensively in furnaces and in power-factor correction. With the improvements made by our organization recently, capacitators using different types of dielectric have eliminated the doubtful manufacturing factors which have made large production unprofitable and unstable in the past.

Mica condensers are used in practically every broadcasting and radio station of the world. It is the most important development, next to the tube, that made the present broadcasting possible. Without the development of the mica condenser, present types of broadcasting would have been impractical and probably impossible. It is the development of the condenser that made the a.c. set practical, for without it smoothing would have been impossible, and if the older types of units were utilized the expense would have been prohibitive.

E. H. SCOTT

Foreign Broadcast Reception

By **E. H. Scott**
President, E. H. Scott Radio Laboratories, Inc.

UNDOUBTEDLY this fall there will be many changes in radio receiving sets as the public now know them. The most important development will, I believe, be in the designing of receivers for the reception of foreign broadcasting stations as well as domestic broadcasting stations. That is, sets that will tune from 15 to 550 meters.

I also believe that, although the tone of the majority of the sets available today is good, this will be still further improved by those manufacturers who in their engineering researches are studying the acoustical properties of the speaker, amplifier and console as a whole.

A. H. LYNCH

Short-Waves, Television to Be Important Sales Factors

By **Arthur H. Lynch**
Merchandising Counsel

THERE is no question whatever but that short-wave transmitters, receivers and television developments of all kinds will continue to provide the novelty which, in my mind, has always been an extremely important sales factor in the radio business.

There is no question about the radio business being temporarily chaotic. The mortality of radio companies has brought about a very serious reduction in price. Good radio receivers and accessories of most reliable manufacture are now obtainable at prices which are ridiculously low. In most cases, the present prices are below the actual cost of manufacture. This condition cannot exist for long. By next fall the entire industry should be purged of a great many of its parasites and be on a much more even keel. Radical changes in our merchandising methods as well as economies in manufacturing, distribution and collections, are bound to be important trade considerations.

Future Trends in Receiving Set Design

By **Ray H. Manson**
Chief Engineer Stromberg-Carlson Telephone Mfg. Co.

R. H. MANSON

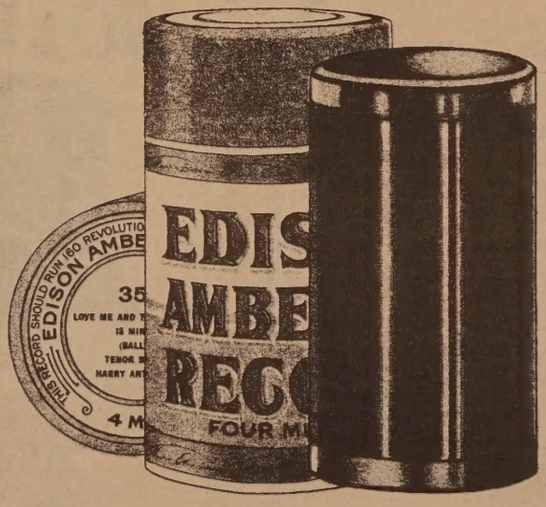
FROM the standpoint of overall performance, broadcast receivers of the near future will not be greatly improved over the best designs of the past year. New tubes, announced this spring, will, however, allow for more efficient circuit design. Class "B" amplification (push-pull audio) will allow greater output, but this system presents some unsolved problems which require further study before it can be adopted for general use in a.c. electric sets. Twin speakers, all-range sets or converters, new designs of automatic phonograph units and "concealed" receivers, with arm-chair control, will be featured this year. The radio public will get more for its money, although quality of performance will be determined by the price classification as in the past.

EDISON AMBEROL RECORDS

are the new records that play twice as long as the regular Edison Records.

This is not done by making the Record larger or longer, but by engraving more than twice as many lines to the inch as on the regular Record.

Thus Amberol Records can be used in the standard sizes of Edison Phonographs by the addition of a simple attachment or gear.

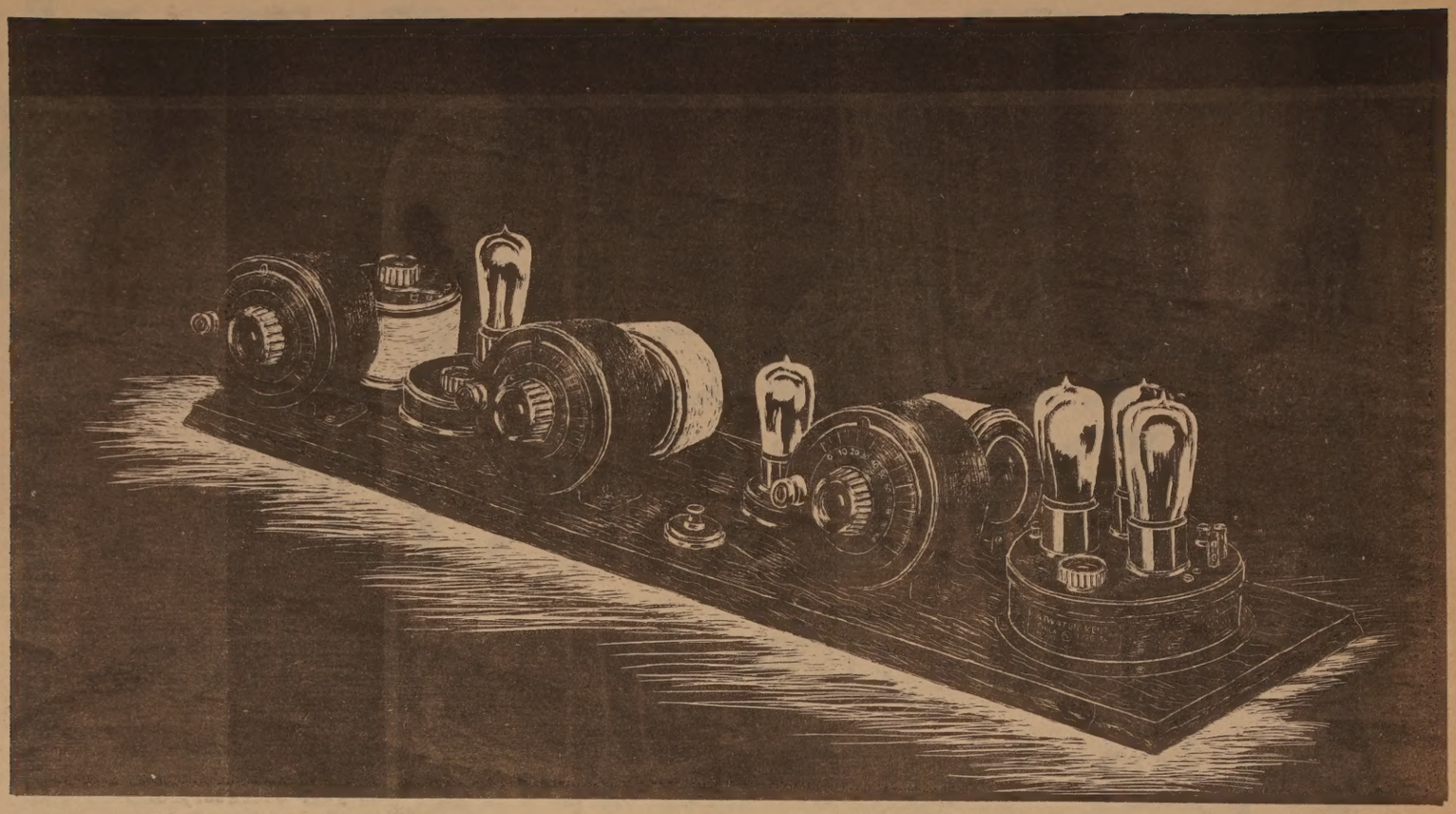


These new Records not only play longer than any other Record now made, but they play better, their tone quality being richer, clearer and more delicate than has been possible in the past.

To play Amberol Records on your present Phonograph requires two attachments—a change gear and a new reproducer. Your dealer has these attachments, will put them on your Phonograph at a moderate cost, and will explain them to you.

We will be glad, however, to send to anyone, a booklet describing the new attachments, describing the Amberol Records, giving a list of the music now available on these Records, and giving all the other information necessary to make it possible for you to get more than twice as much enjoyment out of your Edison Phonograph as you are now getting.

NATIONAL PHONOGRAPH COMPANY
33 Lakeside Avenue, Orange, N. J.

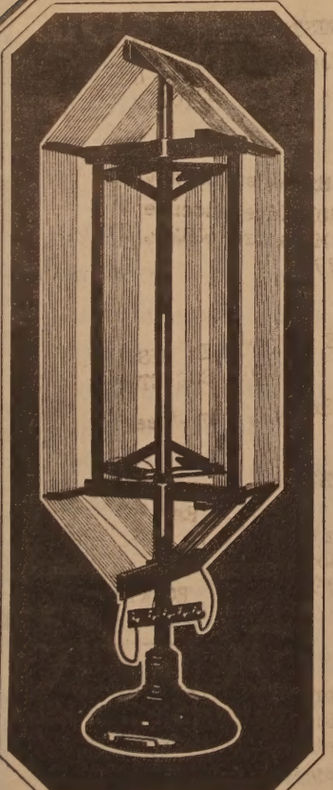


The AK 10

ATWATER KENT MODEL 10 1923

TYPICAL "BREADBOARD" RADIO

Ad from RADIO NEWS, December, 1925



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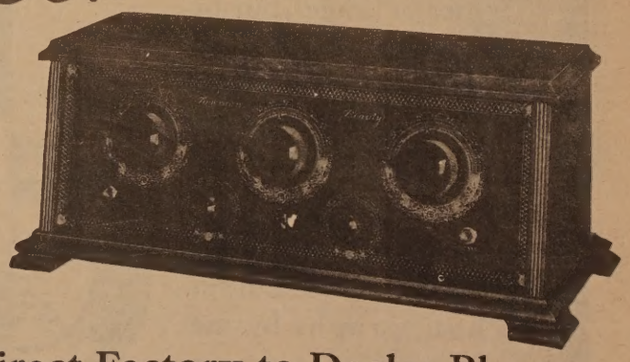

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					6C6	$4	6SG7	$4	7L7	$4	12SL7	$3	31	$4	75	$4	1232	$4
					6C7	$4	6SH7	$3	7Q7	$4	12SN7	$3	32	$4	76	$3	1273	$4
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					6E5	$5	6SQ7	$3	7X6	$4	12Z3	$2	35B5	$2	81	$6	9004	$4
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					6E7	$4	6SS7	$3	7Y4	$4	14A5	$4	35L6	$3	83	$3	VR-105	$2
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				5Z4	$3														
		1T5	$3	6A3	$5														
		1U4	$3	6A4	$6														
		1U5	$3	6A5	$4														
0D3	$2	1V	$5	6A6	$4														
0Z4	$3	1G4	$4	1G5	$4	2A3	$7	6A7	$5										
1A1	$5	1G6	$4	1H4	$5	2A4	$5	6A8	$4										
1A3	$4	1H5	$4	1H6	$4	2A5	$4	6AB4	$3										
1A4	$4	1J6	$4	2A6	$4	6AB7	$3	6F8	$4										
1A5	$4	1L6	$8	2A7	$5	6AC5	$3	6G5	$5										
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1C7	$5	1LH4	$4	3V4	$3	6B4	$5	6K8	$4										
1D5	$5	1LN5	$4	5AZ4	$5	6B5	$5	6L5	$4										
1D7	$5	1N5	$4	5R4	$2	6B6	$5	6L6	$3										
1E5	$5	1N6	$4	5T4	$2	6B7	$5	6L7	$4										
1E7	$4	1P5	$4	5U4	$2	6B8	$4	6N5	$5										
1F4	$4	1Q5	$4	5V4	$2	6BA6	$2	6N6	$4										
1F5	$4	1R5	$2	5W4	$2	6BE6	$3	6N7	$4										
1F6	$4	1S5	$2	5X4	$3	6BJ6	$2	6P5	$3										
1F7	$5	1T4	$3	5Y3	$3	6C4	$2	6Q7	$4										

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on the Air

Club News

INDIANA HISTORICAL RADIO SOCIETY

INDIANAPOLIS

Second Annual Mid Winter swap Meet and Flea Market of Old Radio gear will take place at The Indiana Vocational College, (Ivy Tech) 1315 E. Washington Street Indianapolis (just east of down town on US 40) WHEN-Saturday Feb. 26 at 11a.m. Every one asked to bring extras for sale or trade. Plenty of indoor space with convenient space to parking lot off street west of building. Business meeting at 1 p.m. See you at Indy.

Following are some clippings of names and addresses of regional radio clubs. If the addresses need to be brought up to date, please write The Horn Speaker.

We do not have any kind of an address for The Northwest Vintage Radio Club.

Ask your secretary or publicity officer to send us information about your club.

THE BUCKEYE ANTIQUE RADIO AND PHONOGRAPH COLLECTORS' CLUB
490 Mineola Ave.,
Akron. Ohio 44302.

SOUTHEAST?

BRISTOL ANTIQUE RADIO KLUB
John D. Alley, 48 Judson St., Raynham, Mass. 02767.

The Mid-America Antique Radio Club 2301 Independence Ave., Kansas City, Missouri 64124, Phone: (816) 241 6796.

THE CALIFORNIA HISTORICAL RADIO SOCIETY
1103 North Fourth Street, San Jose, California 95112.

ANY MORE?

Southwest Vintage Radio and Phonograph Society, P.O. Box 19406, Dallas Texas 75219.

ROCKY MOUNTAIN CLUB need an address

Tudor Rees (Vintage Services)
64 Broad Street, Staple Hill,
Bristol, BS16 5NL, Great Britain
Telephone: (0272) 565472.

Oldtime Announcers Club, P.O. Box 1174, North Little Rock AR 72115.

NOTICE

PAPER PRICE INCREASE SUBSCRIPTION RATES FOR THE HORN SPEAKER, AFTER JANUARY 1, 1977:

New rates after January 1, 1977:
One year.....$5.50
Two years.....9.00
Special rates for one year (mailed in envelope)
First class.....8.50

Foreign Air Mail.....16.00

Combined Television and Broadcast Receiver

Description—A combination receiver that should have popular appeal to all types of radio enthusiasts. This attractive cabinet of upright design contains a short-wave

chassis to receive television signals and a superheterodyne receiver to provide reception on the broadcast wavelengths (200-550 meters). The television screen measures 8 inches by 7 inches. A lens scanning disc driven by a synchronous type motor and a Taylor neon arc lamp are employed to project the television images.

Maker—Trav-Ler Manufacturing Corp., 1818 Washington Ave., St. Louis, Mo.

RADIO NEWS FOR JUNE, 1932

Television Receiver and Radiovisor

Description—The table type model JD-30 eight-tube receiver shown in the accompanying illustration has a wavelength range of 80 to 550 meters. The radio-frequency tuning circuit is of special design to provide

broad-band tuning for television signals and the required selectivity for reception on the broadcast band. The audio-frequency system is said to provide uniform amplification at all frequencies from 20 up to 30,000 cycles. The following type tubes are utilized: four –24 type, one –27 type, two –45 type and one –80 type. The cabinet measures 21 inches high by 12 inches wide.

The second illustration shows the Jenkins model R-400 projector type television radiovisor. It comprises a 60-line, lens type

Thomas A. Edison a "Radio Fan"

THOMAS A. EDISON has followed the lead of the several hundred thousand citizens who have armed themselves with radio receiving sets, so as to snatch radiophone speeches, music, weather reports and time signals from the obliging ether, which permeates everything everywhere, so scientists tell us. This accounts for the fact that the radio waves travel right thru the brick wall of a building, as if there were no wall there at all. The radio waves pass right thru our bodies from hundreds of stations everywhere all day long, if we but knew it, but thanks to a wise Creator, our senses do not register the passing of these waves thru our body cells.

Radio is not new to Mr. Edison, for he was one of the very first to become interested in the wireless transmission of telegraph dot and dash signals way back in the 80's, when he installed an electrostatic radio telegraph scheme on a train and tried it out. There was not any great enthusiasm over this stunt, which worked all right, but did not seem to possess any great future at that time, for the few people who did travel on railroads would not bother to spend the money to talk from the moving train to a land station. The transmission was effected by induction between metal strips installed along the roofs of the train and a parallel wire carried on poles alongside the track.

Thomas A. Edison has Become a "Radio Fan" at Last, and He is Here Seen Busily Tuning to Pick up a Radio Concert Being Transmitted from "W. J. Z.," Newark, N. J. Mr. Edison Hears All the Eastern Stations, as He Has a Good Sized Aerial Connected with it. Note that Mr. Edison is Using One of His Latest Audion "B" Storage Batteries. Signals Have to be Specially Strong for Mr. Edison to Hear Them, as He is Quite Deaf.

Science and Invention for May, 1922

scanning disc with motor driving equipment, a fixed mirror, a crater type lamp and a ground-glass screen. The attractive cabinet containing the apparatus measures 24 inches high by 16 inches wide.

Maker—Jenkins Television Corp., Passaic, N. J.

RADIO NEWS FOR JUNE, 1932

Low-Boy Console Receiver

Description—This inexpensive four-tube superheterodyne console set—the "Bonniboy"—is equipped with a full-floating moving coil dynamic speaker and a balanced, image suppressor pre-selector, to eliminate double-spot reception. The circuit makes use of a –24 type tube as an oscillating detec-

tor, one –35 multi-mu type tube in the intermediate-frequency stage, one –47 pentode type tube as a second detector and amplifier. The –80 type tube is used for rectification. The dimensions of the cabinet are: 35 inches high by 20½ inches wide by 12¼ inches deep.

Maker—The Crosley Radio Corp., Cincinnati, Ohio.

RADIO NEWS FOR JUNE, 1932

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MISC.

PROFESSIONAL-CW operators, retired or active, commercial, military, Gov't, police, etc., invited to join Society of Wireless Pioneers, W7GAQ/6, Box 530, Santa Rosa CA 95402.

"RADIO AGE," a radio magazine devoted to wireless and early broadcast eras. Contains interesting articles written by collectors,

articles published in early radio magazines, lots of reprints of famous radio ads, and a classified section for buying or selling radio and electronic items. Subscribe at $7.50 per year for ten issues. Mail check or money order to Radio Age, 1220 Meigs Street, Augusta, Georgia 30904.

FOR SALE OR TRADE

FOR SALE: 4-Band AM - Bosch Radio, AC, 1930 - 1932, good condition, works fine. 22" high cabinet, 16 X 10 inch. G. Henderson, Route 4, Box 13205, Weatherford TX 76086. (817) 594 0314.

NEW LIST will be available on early radios and radio collectibles in a short time. SASE for list. Burt Noyes, 4 Pinewood Dr., Stratham N.H. 03885.

FOR SALE: Jefferson tube re-juvenator, 1927 $25; 100A Radiola Speaker, $25; Majestic "B" eliminator $30; Hickok jumbo bench tester, about 1938 $25; 1925 rheostat, new original box $4; AK model 44, very clean $60; 1928 QST's, clean covers $2.00 each; Radiola 17 brass Escutcheon plate $3.00; many other parts, phonograph, radios. Send SASE for list. Floyd Paul, 1545 Raymond, Glendale, California 91201.

BID ONLY: Set of Riders 1 to 22. Very good to excellent. Indexes 1 to 10, 1 to 15 and 16 to 22. Also 1 to 5 abridged. Write or call Carl L. Elkins, 1701 Woodland St., Nashville TN 37206. Phone 615 226-0651.

FOR SALE: We have many hours of quality old time radio programs from late '20s to mid '30s. Fun to play the actual old programs thru the horn speaker -- just like back when. Custom made tapes any method. Blalock's Sound Library, 609 Blue St., Richland, Wash. 99352.

WD11 Adaptors, use UX199, 120, VT24. No wiring changes, Radiola III's battery hook-up included $5.25pp., 2 for $9.25. Keith Parry, 17557 Horace St., Granada Hills CA 91344.

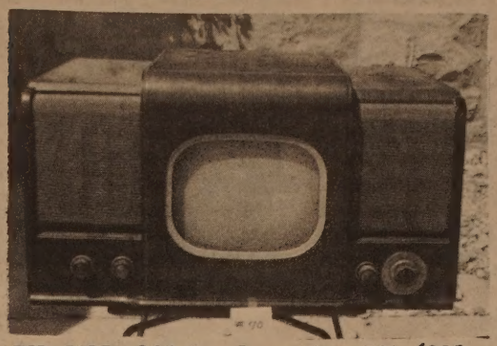
FOR SALE: WD & 99 TUBES X99/20-$5. V99/20-$7. WD11-R-$10. Send SASE for details. Hanson, 3403 E. Broadway, Long Beach CA 90803.

FOR SALE: Solid-state power supply provides most needed "A", "B" and "C"voltages. Send SASE for special sheet. G. B. Schneider, 6848 Commonwealth, Parma Hgts, Ohio 44130.

OFFERING a choice of over 50 different factory built crystal sets for trade on early wireless equipment. Guy Martin, Box A, Azusa, California 91702.

$1.00 for the newly published booklet "A Pocket Guide to Antique Radio Collecting." Antique Radio Press, Box 42, Rossville IN 46065.

FOR SALE OR TRADE



FOR SALE: 10" Crosley - has RCA 630? chassie. Other old 3", 5" and 7" televisions $50.00 up. Grebe Synchrophase, AK 20, "cathedrals" and other radios. Arthur, 925 Starlite, Grants Pass, Oregon 97526. 503 476-1585. Wanted: Horn phonographs.

FOR SALE OR TRADE: Old radios for small gasoline engines SASE for list & prices. W. L. Cunningham, 4335 Barker St., S.E. Wash., D.C. 20019.

FOR SALE: Repair phonographs (many parts, etc. available). Jerry Madsen, 8115 Emerson South, Minneapolis MN 55420.

WANTED

WANTED: Outside horn phonographs, crystal sets, radio horns, early battery radios, "cathedrals," old telephones, 1930s televisions and music boxes. Any quanitys. By Chuck Seidel, collector since 1951 pictured above. See page 301 "Flick of The Switch." Now living in Oregon at 925 Starlite, Grants Pass, Oregon 97526. Or call Chuck for immediate commitment 503 476-1585.

WANTED

WANTED: Coin operated & pre-1900 phonographs (all parts), all advertising items, etc. Jerry Madsen, 8115 Emerson South, Minneapolis MN 55420.

WANTED: Pre-1930 radio, electrical, telephone, telegraph sets, parts, books, magazines, catalogs, service manuals, schematics etc. Bill Nangle, 761 No. 29th St., Milwaukee, Wis., 53208.

WANTED: Any radio fan magazines. Also, any radio magazine with commercial broadcast or star information. Examples - "Radio Guide, Radio Stars, Radio-TV Mirror," etc. Also "Photoplay" magazines. 1 or 100. Fred L. Davis, 5106 Skippy Street, Memphis, Tennessee 38116.

WANTED: Most anything to do with Automotive Radio 1929-1960. Vibrators, literature, complete radios, knobs,etc. Please describe and price in first letter. Marv Roth, 14500 LaBelle, Oak Park, Mich. 48237.

WANTED: Scott, McMurdo Silver, Lincoln, and other classic receivers. Also pre-1930 battery sets, speakers, mikes, etc. J. E. Cunningham, 23W 675 Ardmore, Roselle, Ill. 60172.

WANTED: GONIOMETERS - similar to Variometer but with two split "stator" coils (at right angles) and one "rotor." Old or new, incomplete or rewindable - want to use for low frequency and BCB listening. Bob Lamb, Box 454, Leander TX 78641.

WANTED: Service manual and schematic for Dumont Oscilloscope model 327, serial No. 2X03. This is the large professional Scope, Scope uses tubes and has printed circuits. Will pay Top Dollar. Ralph G. Maddox, Purgitsville W VA 26852.

WANTED: Hickok model 540 tube tester or illuminated meter from model 540. William Shibler, 5899 Barnes Ave., Bethel Park PA 15102.

WANTED: One good audio transformer for Radiola III (Canadian). Atwater Kent 55 (Early) tuning control. Darcy Brownrigg, Chelsea, Quebec JOX 1NO Canada.

WANTED: TUNING BEZEL (glass only) for RCA 97KG (1938) console. Quote price to Steve Andersen, 5175 Brooks Circle S.E., Prior Lake, Minnesota 55372.

WANTED: Speaker for Zenith model VII. George W. Byrd, Sr., 14 N. Bridge St. Highland Springs VA 23075.

WANTED: A.K. Model 30 Cabinet. E. Drake, Box 38, Raynham, Mass. 02767.

WANTED: Variable capacitor for Tuska 301 Jr. will buy chassis or trade for same. Ronald F. Hill, 386 Roosevelt Ave., Lyndhurst N.J. 07071.

WANTED: AK Coupled circuit tuner #3752. Have items to swap. Bob Lane, 2301 Independence Ave., Kansas City MO 64124.

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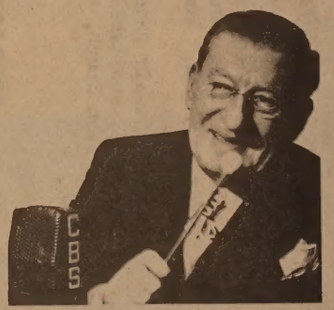
THE HORN SPEAKER

1977

Jim and Marian Jordan as *Fibber McGee and Molly*



Bob Hope

Will Rogers

Major Bowes

Babe Ruth, Graham McNamee

Amos 'n' Andy. Left to right: Freeman Gosden, Charles Correll

Mr. Lee A. Davis
Route 3, Box 2203
Sumner, Wash. 98390

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